

BOOK NOTICE

LINCOLN TAIZ AND EDUARDO ZEIGER. 2010. **Plant Physiology, 5th Edition.** (ISBN 978-0-878-93866-7, hbk.). Sinauer Associates, Inc., 23 Plumtree Road, Sunderland, Massachusetts 01375, U.S.A. (**Orders:** www.sinauer.com). \$124.95, 782 pp., 593 illus., selection of color figures, SEM images, graphs, tables, images and appendices, 9" × 11 ¼".

Chapters:

1. Plant Cells
 2. Genome Organization and Gene Expression
 3. Water and Plant Cells
 4. Water Balance of Plants
 5. Mineral Nutrition
 6. Solute Transport
 7. Photosynthesis: The Light Reactions
 8. Photosynthesis: The Carbon Reactions
 9. Photosynthesis: Physiological and Ecological Considerations
 10. Translocation in the Phloem
 11. Respiration and Lipid Metabolism
 12. Assimilation of Mineral Nutrients
 13. Secondary Metabolites and Plant Defense
 14. Signal Transduction
 15. Cell Walls: Structure, Biogenesis, and Expansion
 16. Growth and Development
 17. Phytochrome and Light Control of Plant Development
 18. Blue-Light Responses: Morphogenesis and Stomatal Movements
 19. Auxin: The First Discovered Plant Growth Hormone
 20. Gibberellins: Regulators of Plant Height and Seed Germination
 21. Cytokinins: Regulators of Cell Division
 22. Ethylene: The Gaseous Hormone
 23. Abscisic Acid: A Seed Maturation and Stress-Response Hormone
 24. Brassinosteroids: Regulators of Cell Expansion and Development
 25. The Control of Flowering
 26. Responses and Adaptations to Abiotic Stress
- Appendix One: Energy and Enzymes
Appendix Two: The Analysis of Plant Growth
Appendix Three: Hormone Biosynthetic Pathways
Glossary
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Subject Index

This textbook provides a novice student or botanist with enough information regarding plant physiology. The authors include a variety of color images, graphs, and figures to assist in the explanation of the many processes that occur within plants. Taiz and Zeiger added several new features to this edition: new chapters (Chapters 2 and 14), a new appendix (3), updates and revisions to the information included in various chapters, and updates to the supplemental information included on the companion website (www.plantphys.net). The companion website is easy to navigate and provides additional information that helps to clarify certain points in the chapters. These enhancements have greatly improved the book since its first edition. The figures that they used are quite detailed and easy to follow.—Keri McNew Barfield, MS Biology, Research Programs Manager, Botanical Research Institute of Texas, 500 E 4th Street, Fort Worth, Texas 76102-4025, U.S.A.